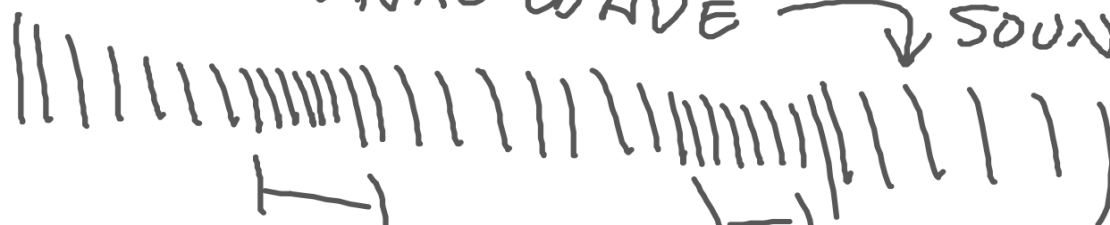




TRANSVERSE WAVE \uparrow EM \rightarrow

LONGITUDINAL WAVE \rightarrow SOUND



COMPRESSED

frequency:

the number of cycles
PER SECOND THAT PASS
A POINT

Wavelength \Rightarrow meters (m)
frequency \Rightarrow Hertz (Hz)
Amplitude \Rightarrow meters (m)

RADIO WAVES

LARGE Wavelength

Low frequency

Low energy

* cell phones

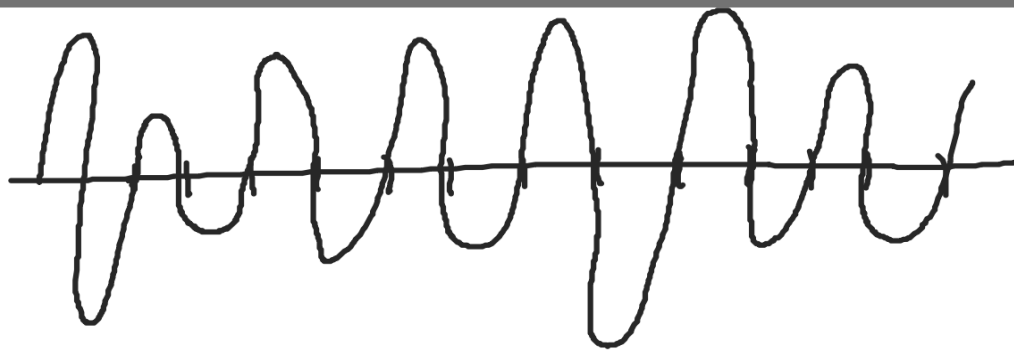
* Chordless phones

* RADIOS AM - Amplitude MODULATION
 FM - Frequency MODULATION
 XM = ?

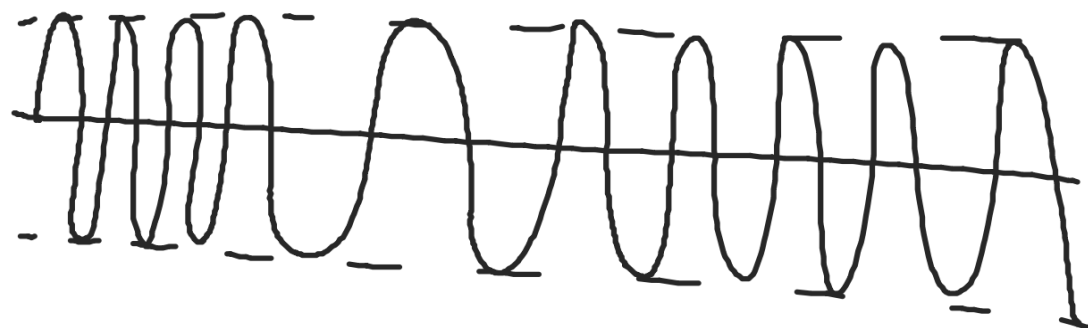
* WiFi

* BLUETOOTH

A_m



F_m



Wavelength & frequency
are inversely proportional

$\lambda \uparrow f \downarrow$

$\lambda \downarrow f \uparrow$